

CLAIMS

1. A first broadband interface unit (BIntU) transceiver associated with a broadband network system wherein the first broadband network system further includes a data distribution center, the first BIntU transceiver comprising:

5 a transmitter portion that is configured to transmit user defined protocol with value-added (UDPVA) packet to the data distribution center, wherein the first BIntU transceiver is configured to interface with the data distribution center or a second BIntU transceiver to indicate when the UDPVA packets transmitted from the first BIntU transceiver to the data distribution center or the second BIntU transceiver are being received by the second BIntU

10 transceiver.

2. The BIntU transceiver of claim 1, wherein the data distribution center generates a return packet in response to the UDPVA packets, wherein the return packet is transmitted from the second BIntU transceiver via the data distribution center to the BIntU transceiver.

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3. The BIntU transceiver of claim 1, further comprising software associated with the first BIntU transceiver that permits the first BintU transceiver to interface with the second BIntU transceiver or the data distribution center.

20 4. The BIntU transceiver of claim 1, further comprising:

a receiver portion that is configured to receive a return packet from the data distribution center of the second BIntU transceiver to indicate that the data distribution center or the second BIntU transceiver received the UDPVA packet from the first BIntU transceiver.

5. The BIntU transceiver of claim 1, wherein the UDPVA packet includes at least one from audio, video, and other data.

6. The BIntU transceiver of claim 1, wherein the UDPVA packet includes a Java
5 applet.

7. The BIntU transceiver of claim 1, wherein the first BIntU transceiver interfaces with first data distribution center, wherein the first BIntU transceiver receives a return packet from the data distribution center in response to the UDPVA packet.

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8. The BIntU transceiver of claim 7, wherein the UDPVA packet includes a Java applet, and wherein the return packet is returned in response to the Java applet.

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9. The BIntU transceiver of claim 1, wherein the UDPVA packet are received by the data distribution center or transmitted by the data distribution center using security techniques.

10. The BIntU transceiver of claim 9, wherein the security techniques utilize biometric technology that may be accessed by the data distribution center.

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11. The BIntU transceiver of claim 9, wherein the security techniques utilize smart card technology that may be accessed by the data distribution center.

12. The BIntU transceiver of claim 9, wherein the security techniques include a private
25 key located at the BIntU transceiver that may be accessed by the data distribution center.

13. The BIntU transceiver of claim 1, further comprising a data distribution center that interfaces with the first BIntU transceiver, wherein the data distribution center or the second BIntU transceiver selectively transmits a return packet to the first BIntU transceiver in response to the UDPVA packet, and wherein an end user at the second BIntU transceiver can access the UDPVA packet based on the security.

14. A method of registering a broadband interface unit (BIntU) transceiver located in the same broadband network system as a data distribution center, the method comprising:

10 plugging the BIntU transceiver into the broadband network system;
 powering up the BIntU transceiver wherein the BIntU transceiver performs the registration with the data distribution center; and
 providing a quality of service from the BIntU transceiver to the data distribution center in response to the powering up of the BIntU transceiver.

15 15. A data structure included in user datagram protocol (UDP) packet to be generated by a broadband interface unit (BIntU) transceiver, the UDP packets comprising:

 value-added information included in the frame header information that is used to trigger a return packet to indicate at a remote location that the UDP packet with value-added information is received at the remote location.

16. The data structure of claim 15, wherein the remote location is a data distribution center that transmitted the UDP packet on with value-added information to the BIntU transceiver.

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17. A method for transmitting user datagram protocol with value-added (UDPVA) packet from a first broadband interface unit (BIntU) transceiver associated with a broadband network system, wherein the broadband network system further includes a data distribution center, the method comprising:

5 transmitting a user datagram protocol with value-added (UDPVA) packet at the first BIntU transceiver, wherein the first BIntU transceiver is configured to interface with the data distribution center or a second BIntU transceiver to indicate whether the data distribution center or the second BIntU transceiver is receiving the UDPVA packet from the data distribution center.

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18. The method of claim 17, wherein the UDPVA packet includes a Java applet.

19. The method of claim 17, further comprising transmitting a return packet to the data distribution center in response to the UDPVA packet.

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20. The method of claim 19, wherein the UDPVA packet includes a Java applet, and wherein the return packet is transmitted in response to the Java applet.

21. The method of claim 17, further comprising transmitting the UDPVA packet at the 20 BIntU transceiver using security techniques that ensure the identity of an end user.

22. The method of claim 21, wherein the security technique utilizes biometric technology.

23. The method of claim 21, wherein the security technique utilizes smart card technology.

24. The method of claim 21, wherein the security technique utilizes a private key.

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25. The method of claim 17, further comprising selectively transmitting a return packet from the data distribution center or the second BIntU transceiver in response to the UDPVA packet, and wherein an end user at the second BIntU transceiver can access the UDPVA packet based on the security.

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26. An apparatus for transmitting user datagram protocol with value-added (UDPVA) packet from a first broadband interface unit (BIntU) transceiver associated with a broadband network system, wherein the broadband network system further includes a data distribution center, the apparatus comprising:

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means for transmitting user datagram protocol with value-added (UDPVA) packet from the first BIntU transceiver, wherein the first BIntU transceiver is configured to interface with the data distribution center or a remote second BIntU transceiver to indicate when data distribution center or the second BIntU transceiver is receiving UDPVA packet from the data distribution center.

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27. A first broadband interface unit (BIntU) transceiver associated with a broadband network system wherein the broadband network system further includes a data distribution center, the first BIntU transceiver comprising:

25 a transmitter portion that is configured to transmit a user datagram protocol with value-added (UDPVA) packet to the data distribution center or a second BIntU transceiver,

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wherein the first BIntU transceiver is configured to interface with the data distribution center to indicate when the data distribution center or the second BIntU transceiver is receiving UDPVA packets from the data distribution center, and wherein UDPVA packet transmitted between the data distribution center and the BIntU transceiver is maintained at 5 or below the transport layer.

28. A BIntU transceiver for transmitting a user datagram protocol with value-added (UDPVA) packet to an end user comprising:

an encoder/decoder (codec) configured to code UDP frame information; and
10 a digital signal processor (DSP) portion coupled to the codec, wherein the DSP portion includes a stack, the DSP portion temporarily stores the UDP frame information as UDPVA packet within the stack, and the UDPVA packet is in a form to be transmitted directly to a network destination address device.

15 29. The BIntU transceiver of claim 28, further comprising a buffer that dynamically assigns display specifications based on application requirements.

30. The BIntU transceiver of claim 28, wherein the value-added information triggers an indicator of UDP delivery of header information.

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31. The BIntU transceiver of claim 28, further comprising a processor, wherein the UDPVA packet is generated and transmitted to the end user independently of a computer processor.

32. The BIntU transceiver of claim 28, wherein the architecture of the DSP portion includes a controller/processor.

33. The BIntU transceiver of claim 28, wherein the UDPVA packet includes a portion to 5 convey at least one from the group of audio, video, and other data.

34. The BIntU transceiver of claim 28, wherein the UDPVA packet includes a Java applet.

10 35. The BIntU transceiver of claim 28, wherein the BIntU transceiver interfaces with a data distribution center, and wherein the data distribution center thereupon transmits, or conveys, a return packet to the BIntU transceiver in response to the UDPVA packet.

36. The BIntU transceiver of claim 35, wherein the UDPVA packet includes a Java 15 applet, and wherein the return packet is transmitted in response to the Java applet.

37. The BIntU transceiver of claim 28, wherein the UDPVA packet is generated using security techniques.

20 38. The BIntU transceiver of claim 37, wherein the security techniques utilize biometric technology.

39. The BIntU transceiver of claim 37, wherein the security techniques utilize smart card technology.

40. The BIntU transceiver of claim 37, wherein the security techniques utilize a private

key.

41. The BIntU transceiver of claim 28, wherein the BIntU transceiver interfaces with a

5 data distribution center, wherein the data distribution center selectively transmits a return
packet to the BIntU transceiver in response to the UDPVA packet, and wherein an end user
at a second BIntU transceiver can access the UDPVA packet based on the security.

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